XXII. *A Comparison of the late Imperial Standard Troy Pound weight with a Platina copy of the same, and with other standards of authority. Communicated by Professor* SCHUMACHER, *For. Memb. R.S., in a Letter to* F. BAILY, *Esq., V.P. and Treas. R.S.* . . . . . page 457

XXIII. *On the Brain of the Negro, compared with that of the European and the Orang-Outang. By Dr.* FREDERICK TIEDEMANN, *Professor of Anatomy and Physiology in the University of Heidelberg, and Foreign Member of the Royal Society* 497

XXIV. *On the Respiration of Insects. By* GEORGE NEWPORT, *Esq., Member of the Royal College of Surgeons, and of the Entomological Society of London. Communicated by* P. M. ROGET, *M.D., Sec. R.S.* 529

XXV. *On the Connexion of the Anterior Columns of the Spinal Cord with the Cerebellum. By* SAMUEL SOLLY, *Esq., Lecturer on Anatomy and Physiology at St. Thomas's Hospital. Communicated by* P. M. ROGET, *M.D. Sec. R.S.* 567

XXVI. *On the Temperatures and Geological Relations of certain Hot Springs, particularly those of the Pyrenees; and on the Verification of Thermometers. By* JAMES D. FORBES, *Esq. F.R.SS. L. & E., F.G.S., &c., and Professor of Natural Philosophy in the University of Edinburgh* 571

APPENDIX.

Meteorological Journal kept at the Apartments of the Royal Society, by order of the President and Council.

CORRIGENDA.

Page 350, line 9, *for* of, *read* in which, and *after* called, *insert* is employed.

Page 352, line 25, *for* it is excited, *read* the stimulus which excites it is applied.

Page 353, line 9 from bottom, *for* effects, *read* effect.

Page 355, in the beginning of the first note, *insert* Philosophical Transactions for 1822.

Page 358, line 1, *after* shocks, *insert* "a fact analogous to the division of the spinal marrow leaving unimpaired its influence on the secreting and assimilating organs."—*And line* 7, *for* 1829, *read* 1833.

Page 360, *line* 11 *from bottom, after* as well as, *insert* the maintenance of animal temperature and.—*And in the* 5*th line below this line, after* 1815, *insert* and 1831.

Page 361, *line* 10 from bottom of text, *after* muscular, *insert* and sensorial, and *for* power, *read* powers.

Page 362, line 5, *for* agents of that, *read* external.

Page 368, lines 11 and 16, *before* nerves, *insert* vital, *and after* or, *insert* the.—*And line* 14, *after* part, *insert* every part being supplied with nerves belonging to both systems.—*And in line* 27, *for* this class of nerves, *read* nerves of sensation.

Page 369, line 7, *after* system, *insert* and through the latter system over all parts of our frame.—*And line* 8, *after* latter, *insert* system.

Page 371, line 6, *after* system, *insert* independently of the means of obtaining nourishment.—*And line* 6 *from the bottom, for* system, *read* systems.

Page 376, line 7, *after* organs, *insert* under which circumstances medicine always operates as a permanent tonic.—*And in line* 24, *after* dominion, *insert* see Dr. ROGET's Treatise on Electricity.